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Quantum Gases in Quasi-One-Dimensional Arrays | Mohammad ...

Quantum Gases in Quasi-One-Dimensional Arrays
Authors: Bakhtiari , Mohammad Reza Novel spin-density-functional approach applied to the study of Fermi gases inside one-dimensional optical lattices

Quasi-One-Dimensional Dipolar Quantum Gases - arXiv

Quasi-One-Dimensional Dipolar Quantum Gases Liming Guan, 1Xiaoling Cui, Ran Qi,2 and Hai Zhai1, Institute for Advanced Study, Tsinghua University, Beijing, 100084, P. R. China

Quantum Gases in Quasi-One-Dimensional Arrays - Tesi ...

In conclusion, a novel spin-densityfunctional approach is introduced to study the ground-state of a one-dimensional trapped Fermi gases inside one-dimensional optical lattices. This approach enables the author to investigate both repulsive and attractive Fermi gases within a localspin-density approximation. Different phases caused by a spin-dependent trap for repulsive gas and also by a spin-imbalanced population for attractive gas are analyzed. (PDF) Quasi-One-Dimensional Dipolar Quantum Gases

In this paper we consider dipolar quantum gases in a quasi-one-dimensional tube with dipole moment perpendicular to the tube direction. We deduce the effective one-dimensional interaction

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Intertube hopping leads to a deconfinement quantum phase transition between the 1D Mott insulators and the anisotropic BEC. We also take into account the finite size of the gas tubes as realized in actual experiments. We map out the phase diagram of the quasi-1D lattice and compare our results with the existing experiments on such systems.

Quasi-one-dimensional dipolar quantum gases - NSFC PHYSICAL REVIEW A 89, 023604 (2014) Quasi-one-dimensional dipolar quantum gases Liming Guan,¹ Xiaoling Cui,² * Ran Qi,³ and Hui Zhai¹, ¹Institute for Advanced Study, Tsinghua University, Beijing 100084, People's Republic of China

Quantum States of Interacting Atoms in Quasi-One ... Quantum States of Interacting Atoms in Quasi-One-Dimensional Ultracold Trapped Gases. Journal of Modern Physics, 9, 443-460.

<https://doi.org/10.4236/jmp.2018.93031> Received: January 11, 2018 Accepted: February 11, 2018 Published: February 14, 2018 Copyright 2018 by authors and Scientific Research Publishing Inc.

arXiv:1610.09176v4 [cond-mat.quant-gas] 3 Aug 2017 Quantum fluctuations in quasi-one-dimensional dipolar Bose-Einstein condensates D. Edler¹, C. Mishra^{1,2}, F. W. Achler¹, R. Nath², S. Sinha³, and L. Santos¹ **Quasi-One-Dimensional Dipolar Quantum Gases** - CORE

In this letter we consider dipolar quantum gases in a quasi-one-dimensional tube with dipole moment perpendicular to the tube direction. We deduce the effective one-dimensional interaction potential and show that this potential is not purely repulsive, but rather has an attractive part due to high

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